



April 12, 2016

Mr. Christopher Bonsignore, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Adam Fox, P.E. / Denise Young

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 04.27-01(15)
HazMat Inspection – Traffic Signal Upgrade, Route 6/Route 44 and Ludlow Rd. (Int. No. 076-231), Manchester, CT
ConnDOT Assignment No. 514-5276
ConnDOT Project No. 171-376
TRC Project No. 222165.5276.00710

Dear Mr. Bonsignore:

TRC performed a limited survey for hazardous building materials associated with the planned upgrades to the flashing "Stop Ahead" traffic signal at Route 6/Route 44 and Ludlow Rd. (Int. No. 076-231) in Manchester, Connecticut. Results of the survey identified no lead based paint (LBP) to be present on the metal cantilever traffic pole components ($0.0 \text{ mg/cm}^2/\text{ND} < 0.10\%$ by weight), therefore any paint waste generated would be considered non-RCRA, non-hazardous waste. A suspect asbestos containing material in the form of a grey caulking at the base of the traffic pole was also sampled and found to contain no detectable asbestos. Associated laboratory data, site sketch and photos are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,


TRC

A handwritten signature in black ink, appearing to read "Erik R. Plimpton".

Erik R. Plimpton, P.E., CHMM, CMC
Vice President-Program Manager

A handwritten signature in blue ink, appearing to read "E. Burke".

E. Burke, P.E.
Engineer in Charge

														Lead Based Paint Measurement Summary Table													
Device(s): Niton XLP301-A (Serial 24792) X Ray Fluorescence (XRF) Spectrum Analyzer																											
Site: Traffic Signal, Route 6/44 at Ludlow Road, Manchester, CT																											
Project # : 222165.5276.00710																											
Date(s): 2/18/2016																											
Inspector: Robert Belding (Lead Inspector/RA #002210)																											

Lead paint includes paint found to contain **any detectable** amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).



Client: Mr. Rob Belding
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 6020401

Report Date: February 23, 2016
Project: Stop Ahead Sign Pole, RT 6/44 Ludlow Rd
Project Number: 222165.5276.0710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982
Rhode Island Certification: 199

CET # : 6020401

Project: Stop Ahead Sign Pole, RT 6/44 Ludlow Rd

Project Number: 222165.5276.0710

SAMPLE SUMMARY

The sample(s) were received at 23.6°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
1	6020401-01	Paint Chip	2/18/2016 11:15	02/22/2016

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3050B

Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6020401-01	1	ND	0.10	%	1	B6B2324	02/23/2016	02/23/2016 15:45	

CET # : 6020401

Project: Stop Ahead Sign Pole, RT 6/44 Ludlow Rd

Project Number: 222165.5276.0710

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta
Laboratory Director

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 6020401

Project: Stop Ahead Sign Pole, RT 6/44 Ludlow Rd

Project Number: 222165.5276.0710

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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EPA 6010C in Solid

Lead

CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016

Complete Environmental Testing, Inc.



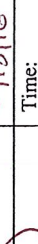
80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

**21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380**

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 47556

[illegible]

Relinquished by: (Signature) 	Date: 2/18/16	Received by: (Signature) 	Relinquished by: (Signature)	Date:	Received by: (Signature)
(Printed) Robert Boring	Time: 1315	(Printed) 	(Printed)	Time: 1315	(Printed)
Remarks:		Condition of Samples: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Comments:			
Page 1 of 7					



BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0047556
Project #: 222165.5276.0710
Date Received: 02/18/2016
Date Analyzed: 02/19/2016

Site: "Stop Ahead" Flashing Sign, Rt. 6/44 @ Ludlow Road

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
1	Grey	Yes	No	--	---	ND	None
2	Grey	Yes	No	--	---	ND	None

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2016. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2016. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by: K. Williamson Reviewed by: Margaret Flanagan Date Issued: 02/19/2016
Kathleen Williamson, Laboratory Manager Margaret Flanagan, Approved Signatory

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0 AIHA-LAP, LLC #100122 CT #PH-0426 ME LA-0075, LB-0071 MA #AA000052 NY #10980 WV# LT000411
RI #AAL-007 TX #300354 VT #AL014538 LA#05011 VA #3333 000283 AZ #A20944 HI #L-09-004 NJ #CT004 CA #2907
CO# AL-15020 PHIL # 461 PA#68-03387

NT5624

TEM Bulk Chain of Custody Record

C222165

TRC

222165.5276.0710

CT DOT- "Stop Ahead" Sign, Rt. 6/44 @ Ludlow Road

K. Williamson-KWilliamson@trcsolutions.com

Margaretta 2/22/16 9200m

E. Plimpton – EPlimpton@trcsolutions.com & SArienti@trcsolutions.com

R. Belding

Analysis Type:	Chatfield	EPA N.O.B	Qualitative

Turn Around Time:

<12 Hour

<24 Hour

<48 Hour

<3 Day

5 Day

Other:

For Lab Use Only						
Client ID #	Lab ID#	Description	Location	Acceptable on Receipt	Comments	
2	47556	Caulk	See COC			
For Lab Use Only		# Spies	Total	Client #	Batch #	Results Reported
						Comments

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail: general@proscience.net

Laboratory Report


Batch: NT 15624
Method: NOB
Date Received: 2/22/2016
Date Analyzed: 2/23/2016
Date of Report: 2/23/2016

Client Project #: 222165.5276.0710
Client Reference: CT DOT - "Stop Ahead" Sign, Rt. 6/44 @ Ludlow Road
PO #: C222165
Client #: 297
Client Name: TRC Environmental Corp. (CT)

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types					% Other Non-asb.	% Carb.	Total % Asbestos	Analyzed / Charged	
					CHR	AMO	ACT	CRO	ANT				Yes	No
NT119140	2	Gray Caulking		.5721	.00	.00	.00	.00	.00	43.32	25.29	ND	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected


Mark Derosier, Analyst



SUBJECT Rt. 6 & 44 @ Ludlow St.

SHEET NO. _____ OF _____

PROJECT NO. _____

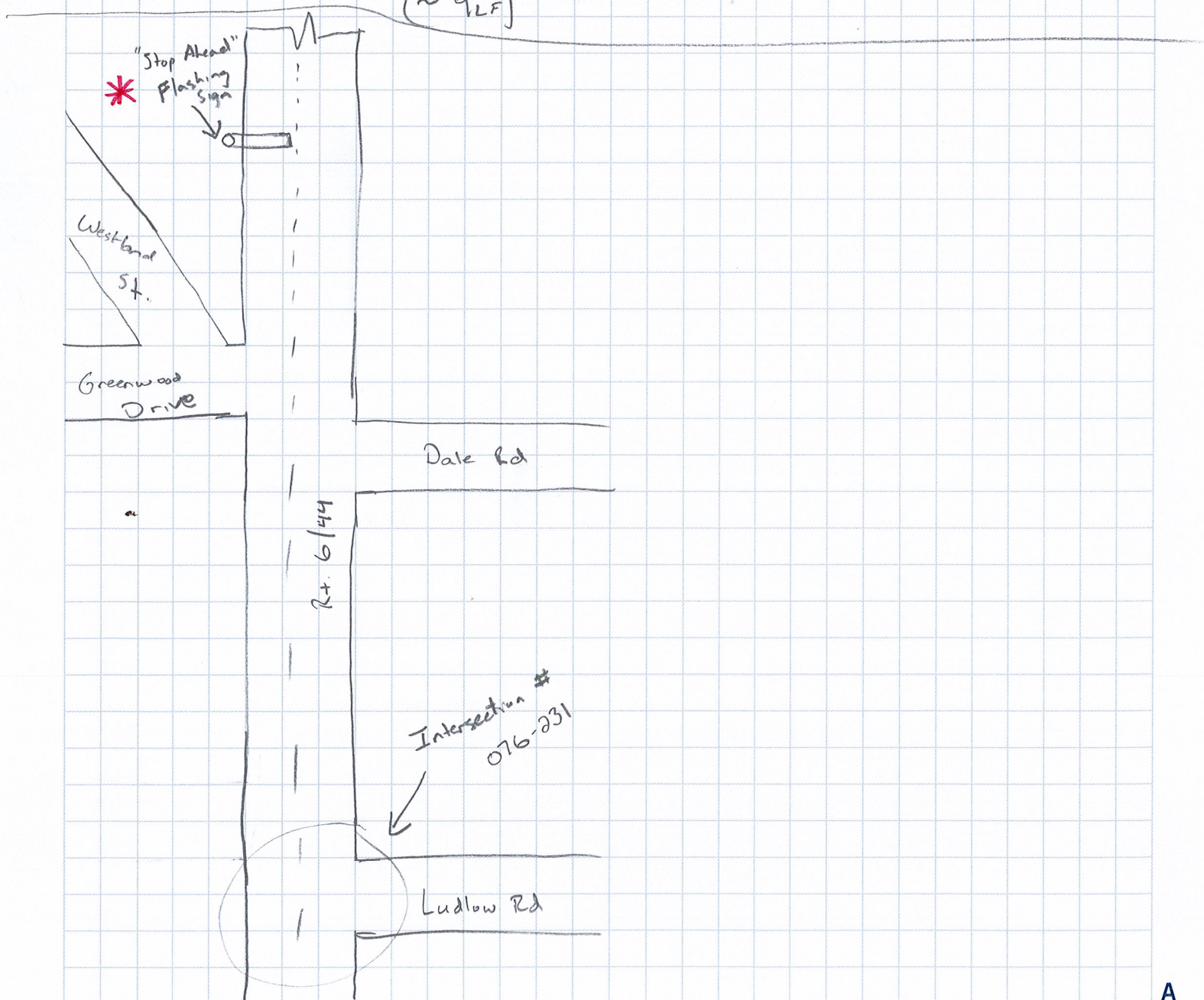
DATE 2/18/16

BY RB

CHK'D _____

Light Pole # 21709

- Metal pole bolted to unpainted concrete
- C₁ at base of pole @ concrete (~ 4 LF)



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
Bureau of Engineering and
Construction

Memorandum

Subject: Project No. 171-376
FAP No. 000R(879)
Upgrading of Traffic Signal Equipment
Manchester
Route 6 & 44 at Ludlow Road (Int. No. 076-231)

Date: December 3, 2015

To Christopher J. Bonsignore
Principal Engineer
Bureau of Engineering and Construction

From David M. Fabry *David Fabry*
Transportation Supervising Engineer
Bureau of Engineering and Construction

David Fabry
2015.12.03
11:29:01-05'00'

Hazardous/Contaminated Material Screening Request

Attached is the following material:

- ☒ Project Description
- ☒ Project Location
- ☐ Conceptual Plan
- ☐ Correspondence
- ☒ Other – Please determine if the existing cantilever structure for the flashing “Stop Ahead” sign at the subject intersection contains hazardous materials. If applicable, please provide the appropriate items, quantities, and specifications. A copy of the existing signal plan is attached.

Please take the following action:

- ☐ For your information
- ☒ Initiate Hazardous/Contaminated Material Screening
- ☐ As noted below

Please take the requested action by: January 4, 2016

Current Project Schedule: FDP – 06/22/16
DCD – 08/03/16
ADV – 09/07/16

Contact David M. Fabry at 860-594-2724, should you have any questions relative to this material.

Attachments

Jason A. Vincent

cc: Tracy L. Fogarty – David M. Fabry

Project No. 171-376

Hazardous/Contaminated Material Screening Request

Project Title: Installation of Traffic Control Signals in Districts 1

Project Numbers: 171-376CN (PE Project/Charge Number 170-3231)

General Project Description: Project Nos. 171-376 will install new traffic signal equipment, which may include span poles, mast arms, signal heads, span wires, conduits, loops, pedestrian countdown heads, signing and pavement markings, to meet current department standards and will remove existing equipment as needed. Installation of traffic control signals will require excavation of existing equipment as well as excavation for new foundations (span pole, mast arm, pedestal, controller cabinet, etc.) and trenching (i.e. conduit) as required. In addition to excavation for traffic signal equipment, excavation will be required for sidewalk ramps that will be installed or reconstructed to meet current ADA standards. In areas of an intersection where there is existing signal equipment, excavation will take place in areas that have undergone extensive ground disturbance in the past. In areas of an intersection where there is no existing signal equipment, excavation may be in areas where there may not have been extensive ground disturbance in the past. There is significantly less than one acre of disturbance for each location.

Intersection requiring a Hazardous/Contaminated Material Screening:

- Manchester – Route 6 & 44 (East Middle Turnpike) at Ludlow Rd. (Intersection No. 076-231)



PHOTO 1

Cantilever Traffic Pole, Manchester (Int. 076-231)



PHOTO 2

Cantilever Traffic Pole, Manchester (Int. 076-231)